

531890

10/531890

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

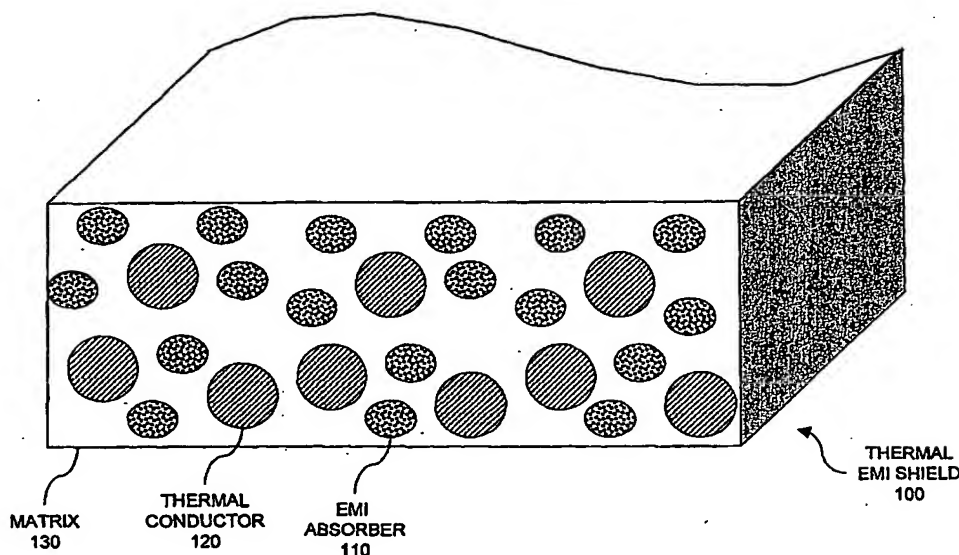
PCT

(10) International Publication Number
WO 2004/037447 A1

- (51) International Patent Classification⁷: **B05D 5/12**, B32B 9/00
- (21) International Application Number: PCT/US2003/033353
- (22) International Filing Date: 21 October 2003 (21.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/419,873 21 October 2002 (21.10.2002) US
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: THERMALLY CONDUCTIVE EMI SHIELD



(57) Abstract: Electromagnetic-energy absorbing materials are combined with thermally conductive materials, such as those used for thermal management in association with electronic equipment, thereby suppressing the transmission of electromagnetic interference (EMI) therethrough. Disclosed are materials and processes for combining EMI-absorbing materials with thermally conductive materials thereby improving EMI shielding effectiveness in an economically efficient manner. In one embodiment, a thermally conductive EMI absorber is prepared by combining an EMI-absorbing material (for example, ferrite particles) with a thermally conducting material (for example, ceramic particles), each suspended within an elastomeric matrix (for example, silicone). In application, a layer of thermally conductive EMI-absorbing material is applied between an electronic device or component, and a heat sink

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INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US03/33353

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B05D 5/12; B32B 9/00

US CL : 427/128, 126.2; 174/135R; 428/323, 325, 334, 421, 423.1, 446, 457, 469, 492, 474.2, 411.1, 500, 688

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 427/128, 126.2; 174/135R; 428/323, 325, 334, 421, 423.1, 446, 457, 469, 492, 474.4, 411.1, 500, 688, 480, 484

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 5,632,942 A (YEH et al.) 27 May 1997 (27.05.1997), abstract and examples	1-21, 27-28 22-26, 29-31
X --- Y	US 5,827,997 A (CHUNG et al.) 27 October 1998 (27.10.1998), abstract and columns 3-4:	1-13, 16, 19-21 4-15, 17-18, 22-31

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Date of the actual completion of the international search

11 March 2004 (11.03.2004)

Date of mailing of the international search report

01 APR 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents

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Form PCT/ISA/210 (second sheet) (July 1998)

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